SAF-RC-001 Industrial Hygiene Sampling FINAL DATA

NO DISTRIBUTION REQUIRED

COMMENTS:

SAF-RC-001

Rad only X Chem only

Rad & Chem

X Complete

Partial

300 Area 334 Bldg







Cover Page

Report Identification Number:

06I-0160-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

Payroll#: 0636267

SAF#: RC-001

COA R33400J451

Web Page: www.datachem.com E-mail: lab@datachem.com

Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
11 Jan 2006	J10WV4	06I01307	NMAM 7300M	G060J011	MCE
11 Jan 2006	J10WV5	06I01308	NMAM 7300M	G060J011	MCE
11 Jan 2006	J10WV6	06I01309	NMAM 7300M	G060J011	MCE
11 Jan 2006	J10WV7	06I01310	NMAM 7300M	G060J011	MCE
11 Jan 2006	J10WV8	06I01311	NMAM 7300M	G060J011	MCE

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Name: Lisa M. Reid Title: Chemist

Date: January 18, 2006



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Case Narrative Page

Report Identification Number: 06I-0160-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001

Payroll#: 0636267

General Set Information: There are 8 samples in set 06I-0159-01 and 5 samples in set 06I-0160-01 which were analyzed for beryllium on MCE filter. No problems were encountered with the receipt of these samples and no contact with the CTR was required.

Method Summary: Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 10 mL of 1:1 (v/v) nitric acid. Samples were digested in a hot block set at 110°C for 40 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

Sample Preparation: All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

Holding Times: The holding times were met for both sample preparation and analysis.

Instrument Calibration: Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

Initial and Continuing Calibration Verification Analysis: Beryllium recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of +/- 10%.

Initial and Continuing Calibration Blank Analysis: No beryllium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Limit of Ouantitation (LOO) of 0.01 ug/sample. .

Method Blank Analysis: No beryllium was found in the media blank sample above the Contract Required Detection Limit (CRDL).

Dilution(s): NA.

Laboratory Control Sample and Duplicate Analysis: One Laboratory Control Sample (LCS) and one Laboratory Control Sample Duplicate (LCSD) were prepared and analyzed with the sample batch. The LCS result was within the control limit of +/- 20%. The Relative Percent Differences (RPD) between the LCS and the LCSD was within the control limit of 20%.

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Case Narrative Page

<u>Replicate Analysis:</u> Two samples in this batch were replicated. The RPD between the sample and the replicate was within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

Sample Calculation: The final results are calculated by the following equation:

Final result for aqueous samples (μ g/sample) = (A) x (B) x (C)

Where:

A = Analyte concentration from instrument determination (μ g/L)

B = Concentration factor from sample preparation

= <u>Final Volume of Digestate (L)</u> Sample

C = Dilution performed at time of analysis

Example Calculation: $(1 \mu g/L) \times (0.025 L/sample) \times (1) = 0.025 \mu g/sample$

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Miscellaneous Comments: None.



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Report Page

Report Identification Number: 06I-0160-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001

Payroll#: 0636267

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Berylliun µg/sample		Berylliun µg/m³	1	Air Volume	è
J10WV4	06I01307	17 Jan 2006	< 0.01	U	**		0.	
J10WV5	06I01308	17 Jan 2006	< 0.01	U	**		0.	
J10WV6	06I01309	17 Jan 2006	< 0.01	U	< 0.015	U	675.09	
J10WV7	06I01310	17 Jan 2006	< 0.01	U	< 0.0094	U	1063.92	
J10WV8	06I01311	17 Jan 2006	< 0.01	U	< 0.0076	U	1310.00	
	0.	01						
R	equired Detecti	ion Limit (RDL)						

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U - Parameter not detected above LOD.

J - Parameter between LOD and RDL.





QC Summary Page

Report Identification Number: 06I-0160-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF: RC-001 Payroll#: 0636267

Batch ID: G060J011

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
BL-240140-1	MB	Beryllium	μg/sample	ND	NA	NA	NA	NA
QC-240140-1	LCS	Beryllium	μg/sample	10.3	NA	10.0	103.	NA
QD-240140-1	LCSD	Beryllium	μg/sample	10.5	10.3	10.0	105.	1.88

MB - Method Blank

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

LD - Laboratory Duplicate

NA - Not Applicable

ND - Parameter not detected above LOD

LCS, LCSD Percent Rec. = (Result / Target) * 100.0

MS, MSD Percent Rec. = ((Result - Parent) / Target) * 100.0

LCS, LCSD Relative Percent Diff. = ((|LCS - LCSD|) / ((LCS + LCSD)/2.0)) * 100.

MS, MSD Relative Percent Diff. = ((|MS - MSD|)/((MS + MSD)/2.0)) * 100.

LD Relative Percent Diff. = ((|Parent - LD|) / ((Parent + LD)/2.0)) * 100

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(10 - 0 Kess)

			CHAIN O	F CUSTODY/S.	AMPLE A	NALY:	SIS RE	QUEST		··			
Cullector: D	ople5		Company Contact Denise A. Pitts and Henry W. Ruby		Telephone No. Project Coordinator 531-1229 Joan H. Kessner			ior	Data Turnaysund				
Payroll #:	7		Sampling Location SPECIAL INSTI 3CCAPECA All relevant CO.					SAF No. RC-001			a4hr		
Type of Sample:			Bldg 334 R3340			Y ECIFIC):	Ì	Method of Shipment Federal Express					
Shipped To: Deuta Che Soult Lak	m	Other	W Die					Bill of Lading/A	r Bill No.	337		- G	
POSSIBLE SAMPLE H	CARD/REMARKS	MATE A · AIR	-	ervation (i.e., cooling			l	037	<u>' /·</u>	/ 5 /	<i>و</i> و ر	<u> </u>	
Spoulal Handling and	for Storage	WI - WIP X - OTT	E	required, etc.)	No	No	No	No	No				
SAMPLE NO.	MATRIX	SAMPLE ANALYS	VOLUME (127 or	Comments	Asbestos Airborne	Lead Airbonse	Beryllio Airbora		Mold				
			Auescm²		 	·							
JOWVY	A	01.11.06	NA	Blank			X		De	1013	10t		-
JIOWV5			NA	Blank			X				B		
JLOWV6			675,09	Personal			X		9	Ø	09		
JOW7			1063.92	Area	9). D	X		1 1	8	{0		
JUWV8	A	01.11.06	1310.00	Avea	11.0		K			2	V		
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WCH-SH-202 (08/29	V2005)				~					Pres	1 , 2		·

Page 6 of 7

Enter on line below the first Sample Number from Page	One:		
JIDWYY			
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Сн		MPLE ANALYSIS REQUEST	
		/ USE MILITARY TIME	
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John Keoples 01.1	11.06 1430 DATE 1968	Vacked Cabinet Roon 16	Blog 3746 100/143
on Viggers / Despy	DATE / JAME	Section By Steps.	DATE/1886
3746 room 16 locked cabout 1	1-16-06 / 14/5 DATE/THE	RZ Steffler R3 Sta	1-16-06/14/5
12 Stefffor R.J. Steff	. WCH . 1-16-06 1500	Fed Ex	DATE / TIME
Euro M	OATE/1996	Mored Elwas	1 Mary 1775
Acton granted By Status.	*DATE / THE	Recorded By: Seward.	DATI / TIME: /
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Retringenting by Parents.	DATE/TIME	Restrict By Christia	DATE / 11ML
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LABORATORY Receiped By	Title		DATE/TIME
SECTION Received By	iue .		M (m/-
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REVIEWED BY:		DATE:	U '
	PRINT/SIGN NAME		•
			• •
WCH-SH-202 (08/29/2005)			Page 2 of 2

COC Page



			CHAIN (OF CUSTODY/S	AMPLE	ANALY	SIS RE	EQUEST					
Collector: S	eoples		Company Contact Denise A. Pitts and Henry W. Ruby				Project Coordinator Joan H. Kessner			Data Turnaround			
Payroll #:	1		Hing Location SPECIAL INSTRUC COAVEC All relevant COAs is			ovided:		SAF No. RC-001		24hr			
Type of Sample:			Bldg 834	ANALYSIS N	METHOD (S	PECIFIC):		Hethod of Ships Feberal Bill of Lading/A	ment Ex	ores			
Shipped To: Duta Chy	im	Wipe Samp Ghost	יייסא∏ (אשיער				-					_	
salt lak		Other	11.06					X5 7	11 7	337	532	29	
POSSIBLE SAMPLE	HÃZARD/RFMARKS	MAT A - Ali	RIX R Pre	servation (i.e., cooling									
Special Handling an	d/or Storage	WI - WI X - OT		required. etc.)	No	No	No	No	No			1	
	Γ	SAMPLE ANALY	VOLUMELLO	T	Asbestos	Lead	Beryllium					_ 	
SAMPLE NO.	MATRIX	SAMPLE DATE	APEX CHI ²	Comments	Airborne	Airborne	Airborne	e Wipe	Mold			 	
JOWV4	A	01.11.06	NA	Blank			X						
JIOWVS			NA	Blank			X						
JOWV6			675.09	Personal			X		0	80			
JOWV?		V	1063.92	Avea	98) 	X		4	8			
JWWV8	A	01.11.06	1310.00	Avea	11.0		X			6			
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		01.11.06						F	IELD	SAMF	LE CC	PY	
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WCH-SH-202 (08/29/2005)

Page ____ of ____

Enter on line below the	e first Sample Number from Pag	e One:		
JIOWVY				
	C	HAIN OF CUSTODY/SAM	IPLE ANALYSIS REQUEST	
			USE MILITARY TIME	
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John Keople	5 A	11.06/ 1430	Locked Cabinet Room 16 1	3/dg 3746 120 /1433
Refugnished By Miles	Diggors/Diggy	DATE/THE	Received By/Stered.	DATE / LIME
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Rz Stefflir	R. Stiffe	WCH 1-16-06 1508	Fed Ex	
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LABORATORY SECTION,	Received By	Title .		DATE / TIME

REVIEWED BY:		DATE:
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